

217/782-2113

JOINT CONSTRUCTION AND LIFETIME OPERATING PERMIT - NSPS SOURCES

PERMITTEE

Peter Baker & Son Company
Attn: Mr. Robert Baker, Vice President
1349 Rockland Road
Lake Bluff, Illinois 60044

Application No.: 01120038

Applicant's Designation: PLANT 8

Subject: Asphalt Plant & Crushing Plant

Date Issued: February 6, 2002

I.D. No.: 111065AAX

Date Received: December 21, 2001

Operating Permit Expiration

Date: See Condition 1.

Location: 8517 South Route 23, Marengo, Illinois 60152

This permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission unit(s) and/or air pollution control equipment consisting of:

- 1 Natural Gas-Fired, Batch-Mix Asphalt Plant with Baghouse
- 1 Crushing Plant with Spray Bars

pursuant to the above-referenced application. This permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This operating permit is effective only if the Permittee has complied with all standard conditions of the construction permit.
- b. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.
- c. This operating permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.
- d. This permit shall terminate if it is withdrawn or is superseded by a revised permit.
- 2a. This asphalt plant is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and I. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The emissions from the asphalt plant shall not contain particulate matter in excess of 0.04 gr/dscf and shall not exhibit 20% opacity or greater, pursuant to the NSPS, 40 CFR 60.92.

- c. At all times the Permittee shall also maintain and operate the asphalt plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, pursuant to the NSPS, 40 CFR 60.11(d).
- 3a. The crushing plant is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and OOO. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. At all times the Permittee shall also, to the extent practicable, maintain and operate these sources, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- c. Fugitive emissions of particulate matter from grinding mills, screens (except from truck dumping), bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck or railcar loading operations shall not exceed 10 percent opacity, (40 CFR 60.672(b) and (d)).
- d. Fugitive emissions of particulate matter from the crushers (except from truck dumping), shall not exceed 15 percent opacity, (40 CFR 60.672(c) and (d)).
- 4a. Emissions and operation of the asphalt plant shall not exceed the following limits:

Asphalt Production		<u>Pollutant</u>	Emission Factor (Lb/Ton)	Emissions	
<u>(T/Mo)</u>	<u>(T/Yr)</u>			<u>(T/Mo)</u>	<u>(T/Yr)</u>
65,000	390,000	Particulate Matter	0.042	1.4	8.2
		Carbon Monoxide	0.400	13.0	78.0
		Nitrogen Oxides	0.025	0.8	4.9
		Volatile Organic Material	0.0082	0.3	1.6
		Sulphur Dioxide	0.0046	0.2	0.9
		Total		15.7	93.6

These limits are based on maximum asphalt production and standard AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Emissions and operation of the crushing plant shall not exceed the following limits:

Aggregate Throughput		<u>Equipment</u>	Emission Factor (Lb/Ton)	PM Emissions	
<u>(T/Mo)</u>	<u>(T/Yr)</u>			<u>(T/Mo)</u>	<u>(T/Yr)</u>
50,000	300,000	1 Crusher	0.0007	0.02	0.1
		2 Screens	0.0018	0.10	0.6
		2 Conveyors	0.0001	0.02	0.1
		Total		0.14	0.8

These limits are based on maximum aggregate throughput and standard, controlled AP-42 emission factors. Compliance with annual limits shall be determined from a running total of 12 months of data.

5. The Permittee shall maintain records of the following items:
 - a. Asphalt concrete production (tons/month and tons/year); and
 - b. Aggregate throughput (tons/month and tons/year).
6. The Permittee shall maintain an operating and maintenance log for the dryer control system, including:
 - a. Incidents of malfunction, with date, duration, description, probable cause, and corrective actions, pursuant to 40 CFR 60.7(b), and
 - b. Maintenance activities, with date and description of inspections, repair actions, and equipment replacements, etc.

This log shall be available for inspection and copying by the Illinois EPA.

- 7a. This Permit will expire on the day operation ceases at this location, and all emission units are moved to a new location.
 - b. The transportation and reassembly of a portable plant at a new location requires a new construction and operating permit pursuant to 35 Ill. Adm. Code 201.142 and 201.143. This permit must be obtained prior to reassembling the plant at the new location.
 - c. The Illinois EPA is to be notified, in writing, within five (5) days of any relocation of the moveable processing equipment, covered by this permit, to another permitted location.
- 8a. Within 60 days after each source achieves maximum production, but not later than 180 days after initial startup pursuant to 40 CFR 60.675 and 60.8, the opacity from the crushing plant shall be measured during conditions which are representative of the maximum performance. The Illinois EPA may provide additional time for the performance of this testing upon request from the Permittee which shows that it is not feasible to perform representative testing within 120 days.
 - b.
 - i. The following methods and procedures shall be used for opacity measurements.

USEPA Method 9, 40 CFR 60 Appendix A
 - ii. A test shall consist of 30 sets of 24 consecutive observations.
 - c. Opacity measurements shall be performed by a certified observer.

- d. The Illinois EPA shall be notified prior to these measurements to enable the Illinois EPA to observe these measurements. Notification of the expected date of the measurements shall be submitted to a minimum of thirty (30) days prior to the expected date. Notification of the actual date and expected time of measurement shall be submitted a minimum of five (5) working days prior to the actual date of the measurement. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notifications if it interferes with the Illinois EPA's ability to observe the measurements.
9. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
10. In the event that the operation of this emission unit results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.
11. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.
12. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
13. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

14. Persons with lifetime operating permits must obtain a revised permit for any of the following changes at the source:
- a. An increase in emissions above the amount the emission unit or the source is permitted to emit;
 - b. A modification;
 - c. A change in operations that will result in the source's noncompliance with conditions in the existing permit; or
 - d. A change in ownership, company name, or address, so that the application or existing permit is not longer accurate.

It should be noted that the company must submit a written request to withdraw the FESOP (96040041, 111815AAG) to avoid future fee billings at the previous asphalt plant site.

If you have any questions on this, please call Jim Kallmeyer at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JDK:psj

cc: Illinois EPA, FOS Region 1
USEPA